

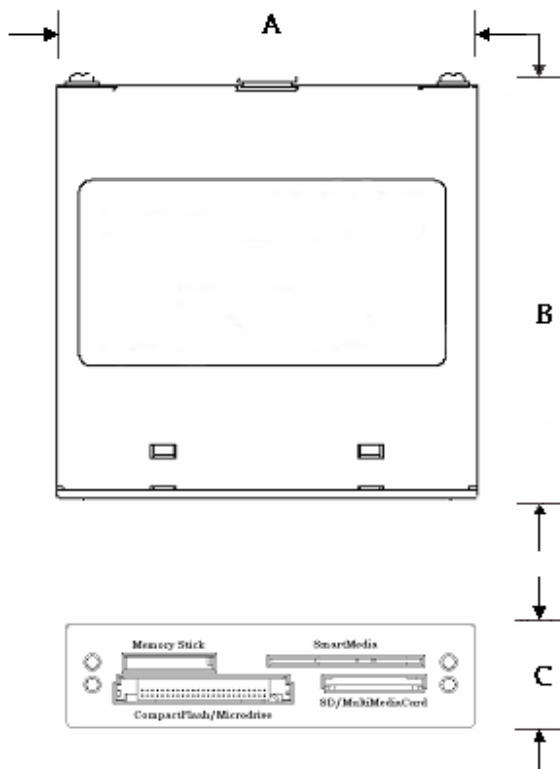
TS0MFLRD8E

USB2.0 Internal Multi-Card Reader

Description

TS0MFLRD8E is a USB2.0 Internal Multi-Card Reader with 4 slots, which are for CompactFlash™ Type I/II, Microdrive™, SmartMedia™, Secure Digital, miniSD (with adapter), MultiMediaCard™, RS-MMC (with adapter), Memory Stick®, Memory Stick PRO®, Memory Stick Duo® (with adaptor) and Memory Stick PRO Duo® (with adaptor).

Outline



System Requirements

- Desktop computer with an onboard USB pin-header and 3.5" drive bay
- One of the following operating systems:
 - Win® 98SE, Win® 2000, Win® Me, Win® XP
 - Linux kernel 2.4 or later

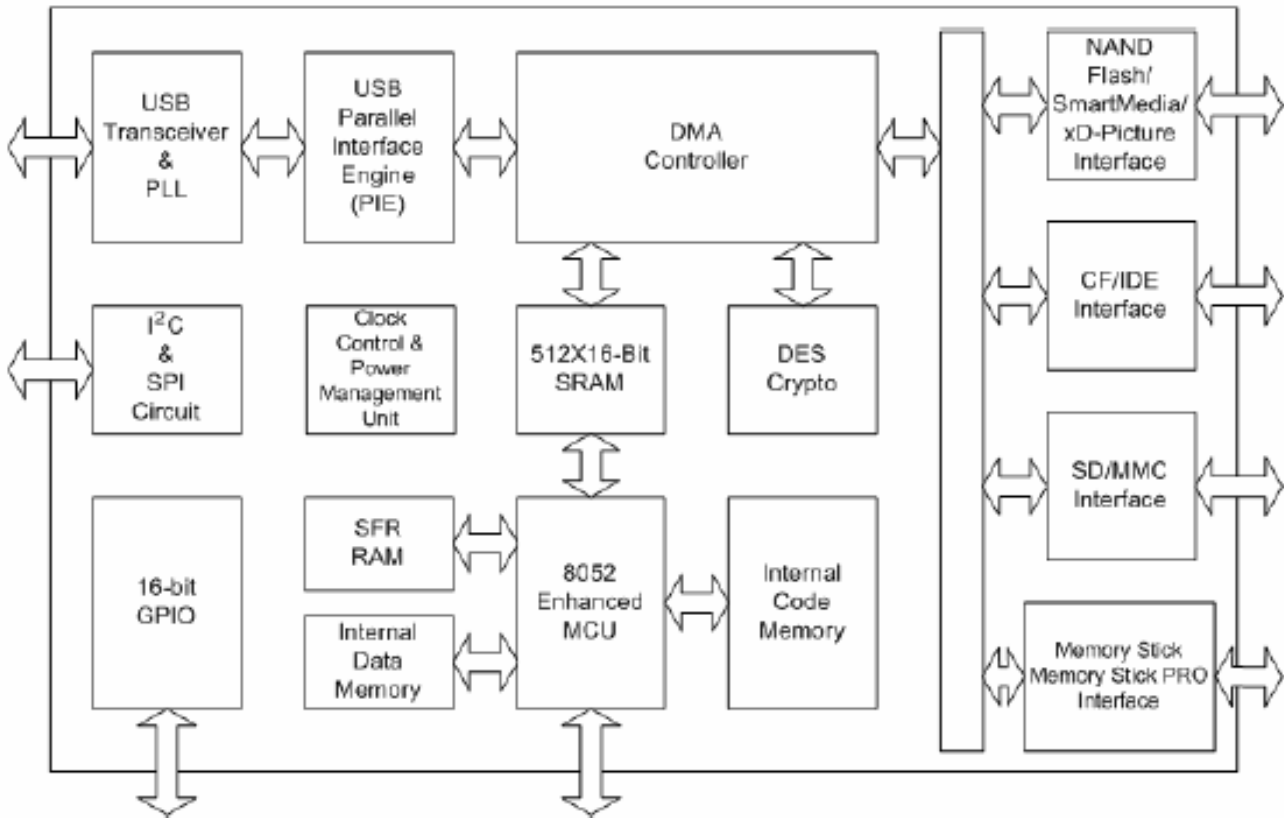
Features

- Front Panel: White
- Single Power Supply: 3.3V / 5V \pm 10%
- Durability of Connector: 10,000 times
- Recommended Operating Temperature: 0 – 40
- Recommended Storage Temperature: -10 – 60
- Compliant with USB specification version 2.0
- Hi-Speed with transfer rate up to 480 Mbps
- Support CompactFlash™ Type I/II, IBM Microdrive™, SmartMedia™ Card, Secure Digital, miniSD (with adapter), MultiMediaCard™, RS-MMC (with adapter), Memory Stick®, Memory Stick PRO®, Memory Stick Duo® (with adaptor) and Memory Stick PRO Duo® (with adaptor)
- LEDs indicate card insertion and data traffic

Dimensions

Side	Millimeters	Inches
A	102.00 \pm 1.00	4.02 \pm 0.04
B	102.00 \pm 1.00	4.02 \pm 0.04
C	26.00 \pm 1.00	1.02 \pm 0.04

Block Diagram



Pinouts

Pin No.	Pin Name
01	VCC
02	USB-
03	USB+
04	VSS
05	NC / SG

Pin Identification

Symbol	Function
USB- USB+	USB differential signal: The pairs are used to transmit Data/Address/Command
VSS	Ground
VCC	USB Power Input
NC / SG	Not Connect / Shield Ground

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Absolute Maximum Ratings

Symbol	Parameter	Min.	Max.	Unit
VCC	Input Voltage	2.6	5	V
Vss	Input Ground Voltage	0	0.7	V
Ta	Operating Temperature	0	+40	°C
Ts	Storage Temperature	-10	+60	°C

DC Characteristics

(Ta = 0 °C to +40 °C, Vcc = 5V, Freq = 12MHz)

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Conditions
Vs	Supply Voltage	3.0	3.3	3.6	V	--
VOH	Output High Voltage	3.0	--	--	V	--
VOL	Output High Voltage	--	--	0.2	V	--

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